WHAT IS CLAIMED IS:

1. A communication apparatus which includes IP (Internet Protocol) communication means and transmits/receives communication data to/from a destination station discriminated by a telephone number, comprising:

IP address obtaining means for obtaining an IP address of the destination station from a predetermined server based on the telephone number of the destination station; and

control means for transmitting/receiving the communication data on an IP network based on a predetermined file transmit/receive protocol to/from the destination station by using the obtained IP address of the destination station.

2. A communication apparatus according to Claim 1, wherein said predetermined server is an SIP (Session Initiation Protocol) proxy server, and said IP address obtaining means obtains the IP address of the destination station from said SIP proxy server based on an SIP.

3. A communication apparatus according to Claim 1, further comprising, in addition to said IP communication means, analog communication means for establishing an analog communication path on a line

switching network or the IP network,

wherein, when it is impossible to transmit/receive the communication data on the IP network based on said predetermined file transmit/receive protocol, the communication data is transmitted/received to/from the destination station by using a voice band via said analog communication path established by said analog communication means.

4. A communication apparatus according to Claim 1, wherein said IP address obtaining means judges, by analyzing the telephone number of the destination station, whether or not it is able to perform the communication with the destination station via a VoIP (Voice over Internet Protocol) network, and tries to obtain the IP address of the destination station from said predetermined server when it is judged to be able to perform the communication via the VoIP network, and said control means controls to transmit/receive the communication data to/from the destination station on the IP network based on the predetermined file transmit/receive protocol by using the obtained IP address of the destination station.

5. A communication apparatus according to Claim 3, wherein said IP communication means and said analog communication means are composed by using ADSL

(Asymmetric Digital Subscriber Line) gateway(s) which use bands obtained by frequency dividing an ADSL line by a splitter respectively for digital communication and analog communication, respectively.

6. A communication apparatus according to Claim 1, wherein said control means obtains the IP address of the destination station from the predetermined server based on the telephone number of the destination station by using a predetermined UDP (User Datagram Protocol), and controls to transmit/receive the communication data to/from the destination station by using the obtained IP address of the destination station based on a predetermined TCP (Transmission Control Protocol).

7. A control method of a communication apparatus which includes an IP communication means and transmits/receives communication data to/from a destination station discriminated by a telephone number, comprising the steps of:

obtaining an IP address of the destination station from a predetermined server based on the telephone number of the destination station; and

transmitting/receiving the communication data on an IP network based on a predetermined file transmit/receive protocol to/from the destination

station by using the obtained IP address of the destination station.

8. A control method according to Claim 7, wherein the predetermined server is an SIP proxy server, and the IP address of the destination station is obtained from the SIP proxy server based on an SIP.

9. A control method according to Claim 7, wherein, when it is impossible to transmit/receive the communication data on the IP network based on the predetermined file transmit/receive protocol, the communication data is transmitted/received to/from the destination station by using a voice band via an analog communication path established on a line switching network or the IP network.

10. A control method according to Claim 7, wherein the telephone number of the destination station is analyzed to judge whether or not it is able to perform the communication with the destination station via a VoIP network, it is tried to obtain the IP address of the destination station from the predetermined server when it is judged to be able to perform the communication via the VoIP network, and the communication data is transmitted/received to/from the destination station

on the IP network based on the predetermined file transmit/receive protocol by using the obtained IP address of the destination station.

11. A control method according to Claim 9, wherein the transmission/reception of the communication data on the IP network and the transmission/reception of the communication data on the analog communication path are performed by using ADSL gateway(s) which use bands obtained by frequency dividing an ADSL line by a splitter respectively for digital communication and analog communication, respectively.

12. A control method according to Claim 7, wherein the IP address of the destination station is obtained from the predetermined server based on the telephone number of the destination station by using a predetermined UDP, and the communication data is transmitted/received to/from the destination station by using the obtained IP address of the destination station based on a predetermined TCP.

13. A control program for a communication apparatus which includes an IP communication means and transmits/receives communication data to/from a destination station discriminated by a telephone

number, said program comprising the control steps of:

obtaining an IP address of the destination station from a predetermined server based on the telephone number of the destination station; and

transmitting/receiving the communication data on an IP network based on a predetermined file transmit/receive protocol to/from the destination station by using the obtained IP address of the destination station.

14. A control program according to Claim 13, wherein the predetermined server is an SIP proxy server, said program comprising the control step of obtaining the IP address of the destination station from the SIP proxy server based on an SIP.

15. A control program according to Claim 13, further comprising the control step of, when it is impossible to transmit/receive the communication data on the IP network based on the predetermined file transmit/receive protocol, transmitting/receiving the communication data to/from the destination station by using a voice band via an analog communication path established on a line switching network or the IP network.

16. A control program according to Claim 13,

further comprising the control steps of analyzing the telephone number of the destination station to judge whether or not it is able to perform the communication with the destination station via a VoIP network, trying to obtain the IP address of the destination station from the predetermined server when it is judged to be able to perform the communication via the VoIP network, and transmitting/receiving the communication data to/from the destination station on the IP network based on the predetermined file transmit/receive protocol by using the obtained IP address of the destination station.

17. A control program according to Claim 15, further comprising the control step of performing the transmission/reception of the communication data on the IP network and the transmission/reception of the communication data on the analog communication path by using ADSL gateway(s) which use bands obtained by frequency dividing an ADSL line by a splitter respectively for digital communication and analog communication, respectively.

18. A control program according to Claim 13, further comprising the control steps of obtaining the IP address of the destination station from the

predetermined server based on the telephone number of the destination station by using a predetermined UDP, and transmitting/receiving the communication data to/from the destination station by using the obtained IP address of the destination station based on a predetermined TCP.

19. A communication method which sends/receives communication data in IP (Internet Protocol) communication between communication apparatuses discriminated by telephone numbers, wherein

a first communication apparatus obtains an IP address of a second communication apparatus from a predetermined server based on the telephone number of the second communication apparatus, and sends a data communication request to the second communication apparatus based on the obtained IP address, and

the communication apparatus on a data receiving side of the first and second communication apparatuses sends a data sending request to the communication apparatus on a data sending side based on a data send/receive protocol conforming to an HTTP (HyperText Transport Protocol), and sends/receives the communication data on an IP network based on the data send/receive protocol.

20. A communication method according to Claim

19, wherein the predetermined server is an SIP (Session Initiation Protocol) proxy server, and the first communication apparatus obtains the IP address of the second communication apparatus from the SIP proxy server based on an SIP.

21. A communication method according to Claim 19, wherein the communication apparatus on the data receiving side of the first and second communication apparatuses has a WWW (World Wide Web) communication function for performing processes such as browsing, a jump to another link, recording output, transfer and the like in respect to data of a WWW server using the data send/receive protocol conforming to the HTTP, and receives the communication data from the communication apparatus on the data sending side by using the WWW communication function.

22. A communication method according to Claim 21, wherein the communication apparatus on the data receiving side of the first and second communication apparatuses performs the processes such as the browsing, the jump to another link, the recording output, the transfer and the like in respect to the communication data received from the communication apparatus on the data sending side by using the WWW communication function.

23. A communication apparatus wherein said communication apparatus operates as the first or second communication apparatus described in any one of Claims 19 to 22.

24. A communication apparatus wherein said communication apparatus operates as the communication apparatus on the data sending side or the communication apparatus on the data receiving side described in any one of Claims 19 to 22.

25. A control program for a communication apparatus which controls the operation of the first or second communication apparatus described in any one of Claims 19 to 22.

26. A control program for a communication apparatus which controls the operation of the communication apparatus on the data sending side or the communication apparatus on the data receiving side described in any one of Claims 19 to 22.